

WHAT IS CLAIMED IS:

1. A method for manufacturing microstructure using light hardenable material, comprising the steps of:
 - (a) preparing step: providing a base having a plurality of protruded portions;
 - 5 (b) sputtering step: sputtering a light hardenable material on said protruded portions evenly to form a light hardenable layer on said base;
 - (c) UV light exposing step: irradiating a ultraviolet (UV) light beam to said liquid light hardenable layer so that said light hardenable layer becomes a solid microstructure; and
 - 10 (d) mold removing step: removing said solid microstructure so as to form a plurality of small holes; thereby forming a microstructure by using non-cooling light hardenable material.
2. A method for manufacturing microstructure using light hardenable material as
15 claimed in Claim 1, wherein one end of said small hole is a closed end.
3. A method for manufacturing microstructure using light hardenable material as
20 claimed in Claim 1, wherein each of said protruded portion has a conical periphery.
4. A method for manufacturing microstructure using light hardenable material as
claimed in Claim 1, wherein each of said protruded portion has a curved periphery.
5. A method for manufacturing microstructure using light hardenable material as
25 claimed in Claim 1, wherein in the preparing step, further includes a procedure for

sputtering a thin film of mold-removing agent on an outer surface of said base.

6. A method for manufacturing microstructure using light hardenable material as claimed in Claim 1, wherein said base has two lateral sides and a plurality of fitting protrusions disposed on said lateral sides of the base for fitting with a plurality of fitting blocks.

7. A method for manufacturing microstructure using light hardenable material as claimed in Claim 1, wherein said light hardenable material is a UV light hardenable resin.

8. A method for manufacturing microstructure using light hardenable material as claimed in Claim 1, wherein each said small hole is a through hole allowing an ink to flow through.